Trees Accomplish a Vast Amount of Solf-Preservation and the Perpetua-

tion of Their Species. Most people have formed the habit of talking about shade trees, fruit trees and lumber as if shade, fruit and building materials were all for which the trees were good. Or course the artistic eye looks at them for beauty, the entomologist as harbors for insects and the botanist for herbarium tree thinks of it in its wide value to all living things in the universe.

Though trees lack the power of volition and have no nervous system in least astonishing. the ordinary sense of the word, they are highly organized forms of life, tual work in a day and earn their liv- | dom. fish kind. They struggle for self-pres- ing 6000 miles, in a more attractive species; they return to the soil and to It goes on to say: the atmosphere materials loaned them for food; they are altruistic in providof others, they furnish grateful shade beauty of nature.

Think of the linden tree on the hillside! In autumn it sets sail its winged hillside, a few are buried under the dry leaves and the soft coverlet of winter's snows. In March the sunshine seeks them out. Moisture has market itself?" softened the tough shell of the nut. The tiny embryo within throbs at the and, creeping through a break in the the instinctive baby hand grasping a protecting mother, and the kindly stepmother of the infant tree is Mother Earth. This first tiny hand is the hold-fast root. Next comes one waved aloft to greet the sunshine. This tender growth throws aside the outgrown nut shell and develops cell by cell into trunk, branch, twig and leaf of the linden tree. Sunshine, warmth out for itself as well.

towers aloft and tries to lift the vital up for dead. prived of their stomachs and lungs at | Cincinnati Commercial Tribune.

Every leaf on a tree is unceasingly economy of the tree. When undigested changes its nourishment. The chlorophyll also breaks up the carbon it out into the atmosphere.

Digested food materials are carried from the leaves to all parts of the tree and aid in its growth. Leaves, as the lungs, are necessary in the process of breathing. Like animals, the tree needs oxygen and breathes much after the manner of a human being. Not only is the life-giving air taken into the lungs, or leaves, but it is inhaled through tiny openings in the bark, just as man and animals transpire through the skin. These tiny breathing holes are called lenticels and may be seen plainly on the bark of cheri, and many other kinds of trees. As the tree drinks water it sweats and exhales water vapor along with oxygen east off from the carbon dioxide.

Tons and tons of moisture is evaporated from wooded areas. This is another beneficial act. Water vapor in the atmosphere is essential to agriculture. Trees transpire through cracks and fissures in the bark, where the lenticels are hidden from sight. This is especially true in old trees, print. From time to time scientists have computed the leaf area of trees and the the water has turned sweet. The results have been astonishing. An ordinary linden leaf has a surface of quake opened a fissue off the coast ten square inches. Multiply this by that forces fresh water and colored the number of leaves on a branch and matter to the surface.-New York Sur calculate the leafage area of the tree. This entire surface is liberating oxy-

gen and water vapor day and night. people are beginning to see that fores. a time table, a romance, a guide, a try and irrigation are the factors political resume, a ground-plan of the than one-third of the United States, is tiser. forest land. The destruction of for-Government has taken the matter in in cold lead; a medley of life and engine has to be driven over rough ervations, where the forests will be man's glory and his shame. regard to these reserves. Although the joys and sorrows, births and and encourage the growth of young | world.

trees, at the same time the land available for settlement will be increased. As forests conserve the rainfall and influence the humidity of the atmosphere, newly planted forests will wedge in between farms on the reservations and farms penetrate the clear-Work in a Day-Their Struggle For ings in old forests. Sheepherders and settlers must be taught intelligent forestry and tree wisdom spread breadcast over the land before the tree receives the reverential respect due to it. -L. M. McC., in Chicago Post.

California Crowding Castlle.

Among other incidents of "the American invasion" of European markets the carrying of California fruits specimens, but the true lover of the to London and Paris in successful competition with what would seem to be the naturally superior facilities of Spanish fruit-growers is not the

Paris is not quite 500 miles distant from Valencia, the great fruit-ship-They accomplish a vast amount of ac- ping port of Alphonso's fruity king-Yet, says a Valencia paper, ing as surely as you and I do. Their "California oranges, peaches, apples work is the world's work of the unsel- and pears reach Paris, after traverservation and the perpetuation of their and appetizing condition than ours."

"We can compete with America only by employing her methods-improved ing an abundance of fruit for the use cultivation, harvesting and packing, cold storage and rapid, safe transporto man and beast, are the refuge of tation. Castile was once called the birds and insects and add to the granary of Europe, yet we have lived to see foreign wheat, after paying heavy transportation taxes, protective duties and an adverse premium of nuts upon the breeze. Blown down the | thirty-five per cent, in exchange, competing with our home-grown cereals. Shall we live to see American oranges competing with ours on the Valencia

And so it goes all along the line. American ingenuity and "hustle" are touch of warmth, turns, lifts a hand, compelling the steelmakers of Britain and the fruit-growers of Spain alike shell, burles itself in the ground. It is to admit that they must imitate us to save their trade .- New York World.

Strange Reunion of Brothers.

A remarkable reunion has been effected between two brothers in Henry County, Indiana, after a separation of nearly half a century, during which time each thought the other dead.

Barton and Jabez Guyer lived with their parents in North Carolina. In girl admitted that she must have been rily to be involved in darkness as comand moisture help it along, but the am- 1852 Barton left home to make his bitious little tree knows how to look way in the world. He went to Texas, the glarm outside .- Arizona Republihence to Mexico, finally returning to Utilitarians consider the trunk the Texas, where he located. He wrote important part of a tree. The trunk his brother repeatedly, but received is a wise makeshift of nature which no reply to his letters and gave him

organs of the tree-the leaves-out of Jabez never received any information harm's way and into purer air and from Barton. He lost all trace of brighter sunshine. Beneath the ground him, and likewise mourned him as the strong roots and rootlets have dead. Barton enlisted in the Confedhundreds of eager, thirsty mouths erate army, and served until peace which take nourishment from the was declared. Jabez later on moved earth. Water and mineral matter are with his family to Henry County, Ind. carried upward by the process of ca- Recently a relative of the family pillary attraction to the leaves in the learned, through a conversation with crown and the branches for digestion a traveling salesman, of a man named and assimilation. A leafless tree Barton Guyer in Harrisburg, Texas, stands little chance of living. Trees A correspondence developed the fact denuded of their leaves by caterpillars | that he was the long-lost brother. and other mischievous things are de- Barton came on to meet his brother .-

Death to the Fly.

industrious day and night. Examine | 'Tis sad but true that picturesque the linden leaf-or, in fact, any leaf means of discouraging flies, such as will do, the truth applies to all-and window boxes of curtain flowers, build it out of notice how its surface is spread to fancy wire screens, etc., are not as efcatch the sunshine. The under side fectual as one could wish on a hot of the leaf has a different appearance, summer day. Mignonnette is sup-The tissue is tenderer and a network posed to be disliked by the pests, but of breathing pores. A section placed it does not keep them out of rooms under the objective of the microscope where it is placed, and wire screens reveals tiny cells filled with a greenish are usually more trouble than the liquid called chlorophyll, which plays | flies themselves and "strain" the air an important part in the domestic to vanishing point. Some people advise encalyptus plants in all the rooms, food from the ground has been carried others washing the windows, etc., with to the leaves the chlorophyll seizes it, a strong solution of sassafras or quasand under the influence of sunlight sia; while all picture frames, etc., which flies haunt, should be well washed in onion water, but, though dioxide with which it comes into con- at times pulliatives, these are not pertact, and, liberating the oxygen, sends | fect cures. An old-fashioned but effeetive destroyer is said to be a teaspoon ul each of cream and brown sugar well blended with half a teaspconful of freshly-ground black pepper and left about the room on plates. -New York Commercial Advertiser.

Pacific Turns Red and Fresh.

Following the earthquake shocks that visited the Pacific coast the other day, a peculiar phenomenon has developed in the waters of the Pacific. Within a distance of sixty-five miles along the Los Angeles County shore line the salty waters, heretofore clear | should one become at ortive, the other and of the usual greenish color, have become a terra-cotta red.

This color line extends off shore for soveral miles and is so distasteful to the ash family that they have gone far into the ocean to seek clear waters. At night this colored sea water gives off a phosphorescent light, and as the long lines of waves roll, toss and strike the beaches they cast a reflection that enables one to read average

At certain points along the beach theory is advanced that the earth-

What is a Newspaper?

It is a li rary. It is an encyclope-In the arid sections of the West the dia, a poem, a history, a dictionary, which will count for their prosperity, civilized world, a low-price multum in About 1,000,000 square miles, or more parvo, says the Newman (Ga.) Adver-

ests has been so extravagant that the obituary, a shipwreck, a symphony shop. The high speed at which an hand and decided on thirty-eight res- death, and a grand aggregation of

under intelligent supervision. There It is, in short, a bird's-eye view of Las been some misunderstanding in all the magnanimity and meanness, the intention is to preserve the forest deaths, the pride and poverty, of the A PHOSNIX GIRL

the Snake. An incident occurred recently near Phoenix, Ariz., in which a fifteen-yearold girl displayed wonderful presence of mind, and illustrates the value of good judgment and self-possession in all everyday affairs of life, as well as on extraordinary occasions, when the house takes fire, or two trains try to

pass on the same track. In a ranch home not far from town lives a family which, at the time mentioned, had in its employ a nurse to wait upon the lady of the house, who was in delicate health, and the girl referred to, whose duties were to wash the dishes and attend to the minor nousehold affairs.

One afternoon, when the head of the house was away from home, the three women were sitting in a room together, when the girl noticed a snake of considerable size coiled up in a dothes rack, or shelf, some distance above the floor, craning its neck out and waving it to and fro in regular snake fashion. The girl knew the impressionable condition of her mistress and the possible effect upon her of any endue or sudden excitement. Her quick remembrance of this fact and her rapidly evolved plan of action is the proof of her self-possession.

She knew the prevailing weakness of women to scream when anything unusual occurs, and therefore knew she could not even take the nurse into her confidence at once in the matter of the discovery of the snake without great danger of precipitating the climax she desired to avoid. So she quietly said to her mistress: "I think I heard your husband calling you out at the gate." The lady of the house at once withdrew, and as soon as she left the room the girl cautioned the nurse to make no outcry, and seizing the nearest club went after the reptile In a manner that put him out of busicourse, could not restrain a little demdistration when she first saw the snake, but she choked herself in short order, and by the time the mistress of the house returned to tell the girl she must have been mistaken about the sumed their usual serenity, and the dreaming when she fancied she heard

WORDS OF WISDOM.

Envy is the disappointment of fools. There is no night where there is no

A light tongue often makes a heavy

You cannot kick and haul at the same time. The policy man doesn't always get

the premiums. The merit that leads great souls to emulation leads little ones to envy. You can never rule with profit till

you have learned to submit with patience. There may be charity without love

but there cannot be love without charity. A book of plans is a good thing to

build a house by but a poor thing to The reason we misunderstand people is that we look at their negative before the print is made.

The impression that truth makes on you may be measured by your expression of it.-Ram's Horn.

The Way Coffee Grows.

Coffee grows more like a cherry than anything else with which people in north temperate latitudes are familiar. The tree, if allowed to grow naturally, will attain a height of twenty feet, though it is often pruned to keep the branches within reach when standing on the ground. For beauty it cannot be excelled, even in the tropics. With is deep green, shining leaves and pure white, fragrant, though transitory, blessom, together with the ripening furit, it produces a picture peculiarly effective.

The fruit, first a tiny green ball, changes to pale red as it develops, and finally, when ripe, the color is a rich brown. It has a pleasant flavor, though rather sweet and somewhat insipid. Its pit is the coffee bean of commerce. Eact fruit contains two beans, which grow with the flat sides together in separate cells, though grows round and fills both cavities.

These rounded berries are separated and sold as Pea Berry Mocha because of their resemblance to the genuine. These abortive cells occur usually toward the ends of the branches and are encouraged by pruning.

Rubber Tires Increasing.

The raild increase in the use of the rubber tire is one of the noteworthy features of city life. The general impression is that its noiselessness and the comfort it gives to the occupant of the vehicle are the advantages gained by using it; but a greater advantage still lies in its preserving the vehicle from the deteriorating effect of jarring and jolting. An automobile with metal tires would soon have its machinery jarred and strained out or order. Some are engines have been fitted with rubber tires, and the exeriment is in the highest degree satisfactory. They not only turn corners | and cross car tracks without slipping. a most important consideration, but It is a sermou, a song, a circus, an they go not so often to the repair streets soon jars some of its parts out of order, but this tranhla is minimized by the use of rubber on the wheels.-Philadelphia Record.

London. There are now 3200.

THE SEA BOTTOM.

What the Little Miss Did When She Saw Physical Conditions and Forms of Life of the Ocean Depths.

The following facts relating to the deep sea and its forms of life are derived from an address delivered recently by Professor C. C. Nutting, of the Iowa University, who has himself been actively engaged in deep-sea exploration.

Probably the most remarkable of the conditions of deep-sea life is the enormous pressure, which varies, of course, with the depth. At the average depth say, 2000 fathoms, the pressure is about two tons to the square inch of surface, and at 4000 fathoms each square inch of surface is subject to a pressure of about four tons. This fact led the earlier physicists to maintain that organic life was impossible In the great depths. It has been proved, however, that animals of all classes, except the highest vertebrates, have been dredged from even the deepest abysses of the ocean.

The great pressure to which they have been subjected has a curious effect on the deep-sea fishes when they are brought to the surface. Under these circumstances, being released from the accustomed pressure, they fall to pieces, as it were. The eyes bulge out, the swim-bladder protrudes from the mouth, the scales fall off and the flesh comes off in patches. Now, these fishes, disreputable as they appear when brought to the surface, were doubtless respectable enough in their proper habitat. In the depths of the ocean they are doubtless no more conscious of the pressure of four or five tons to the inch than are we of the fifteen pounds of atmospheric pressure under which we live and move and have our being.

Another remarkable condition of life in the ocean depths is that of profound darkness, so far, at least, as sunlight is concerned. It has been found that photographic plates are unness in short order. The nurse, of affected beyond a depth of 125 fathoms of clear water, all or the major part of the sun's light having been absorbed before it has reached that depth. Professor Alexander Agassiz assumes as probable that at 200 fathoms the light from the sun is possibly that of call, conditions in the room had re. a clear starlight night. Below that depth all objects would seem necessaplete as though they were immersed in a sea of ink. And yet there is evidence tending to prove the presence of light at depths far in excess of this. According to Professor Agassiz, by far the majority of animals living at a depth of about 2000 fathoms have eyes, either like their allies of shallow water, or else rudimentary, or sometimes very large, as the huge eyes developed out of all proportion in some of the abyssal crustaceans and fishes. Without light these organs would, of course, be useless. Sunlight being out of the question, it is now held that the light which enables these animals to

> see is phosphorescent. A very large number of crustaceans are highly phosphorescent. Many of those having large eyes are of this class, and are particularly active in movement and voracious in appetite. They feed on 'minute organisms for the most part, and it can hardly be doubted that they use their phosphorescent powers for the purpose of illuminating their surroundings and re-

> vealing their prey. A third condition of the ocean depths is a temperature uniformly low, probably below forty degrees, while in many cases the temperature is actually below the freezing point of fresh water. This condition is kept up by the ocean currents, the general drift of the surface waters being from the equator toward the poles, while the deep-sea currents are in the opposite direction. The general impression that a high temperature is more favorable than a low one for the best development of animal ife is certainly not true of marine animals in general. If other conditions are favorable a luxuriant fauna will be developed in any temperature short of the freezing point of salt water.

An Elephant Labyrinth.

A curious labyrinth in which elephants are captured alive is to be seen near Ayuthia, formerly the capital of Siam. The labyrinth is formed of a double row of immense tree-trunks set firmly in the ground, the space between them gradually narrowing.

Where it begins, at the edge of the forest, the opening of the labyrinth is more than a mile wide, but as it approaches Ayuthia it becomes so narrow that the elephants cannot turn round.

Suspecting no danger, the wild elephant enters the broad opening at the forest end, lured on by a tame elephant. The gradual narrowing of the boundaries is not observed until the elephant finds himself in close quar-

Having reached the end of the labyrinth, the tame elephant is allowed to pass through a gate, while men lying in wait slip shackles over the feet of the captives. The sport is a dangerous one, for the enraged elephants sometimes crush the hunters under their feet.

Feeding an Obstinate Ostrich.

The ostrich which the King sent from Windsor to the Zoo some time ago, has shown his disapproval of his change of quarters by going off his feed. To prevent him committing suicide by starvation the keepers have consequently found it necessary to resort to a process of "stuffing."

While one keeper holds the bird in a corner another, with deftness gained wheels.—Philadelphia Record.

he thrusts down the unwilling throat a large ball of nourishing food, and the ostrich is left to digest it at loreign houses.

There were 1268 'buses in the ostrich is left to digest it at loreign houses. leisure.-London Express.

SUBURBAN ASSOCIATIONS

List of Officers Together With Time and Place of Meeting.

IN THE ALTER OF THESE ASSOCIATIONS THE FIRES ARE BURNING FOR ALL THE PEOPLE OF THE SUBURBS.

Citizens' Morthwest Suburban Association.

Meetings are Held the First Friday Evening in Each Month in the Town Hall, Tenleytown, D. C.

OFFICERS:

President, Charles C. Lancaster; 1st Vice-President, Col. Robt. I. Fleming; 2nd Vice-President, Hon. John B. Henderson; 3rd Vice-President, John Sherman; 4th Vice-President, Rev. Joseph C. Mallon; 5th Vice-President, Rev. J. McBride Sterrett; Secretary. Dr. J. W. Chappell; Treas-arer, Charles R. Morgan; Chairman Executive Committee, Louis P. Shoemaker.

Total Membership about 150.

Brightwood Avenue Citizens, Association.

Meetings are Held the Second Friday Evening in Each Menth in Brightwood Hall.

OFFICERS: President, Louis P. Shoemaker; 1st Vice-President, Wilton J. Lambert; 2d Vice-President, N. E. Robinson; 3d Vice-President, Thomas Blagden; 4th Vice-President, Dr. Henry Darling; Secretary, John G. Keene; Treasurer,

N. E. Robinson. Total Membership about 200.

North Capital and Eckington Citizens' Association.

Meetings are Held the Fearth Monday Evening in Each Mouth in the Church of the United Brethren, Corner North Capitol and R Streets.

OFFICERS:

President, Irwin B. Linton; Vice President, Washington Topham Treasurer, W. W. Porter; Secretary A. O. Tingley; Executive Committee The officers and Messrs. Jay F. Ban proft, Theo. T. Moore and W. J

Total Membership about 280.

lakoma Park Citizens' Association.

Meetings are Held the Last Friday Evening in Each Month in the Town Hall, Takoma Park, D. C. OFFICERS:

President, J. B. Kinnear; Vice President, J. Vance Secretary, Benj. G. Davis; Treasurer, Ct. F. Williams.

Total Membership about 100.

QUI K RESULTS.

N. Studer's seasonable announcement on 8th page appeared for the first time in our issue of Saturday, Nov. 3, 1900, and the responses were so prompt that on Tuesday, Nov. 6, he wrote the editor as follows:

Anacostia, D. C., Nov. 6, 1900. Dear Sir: -Come over to-morrow. People want already more information in regard to varieties of stock, hence I will have to alter the adv.

Yours, N. STUDER.

On Wednesday he ordered a much larger display adv., which will appear next week. Any square business man, who has something to offer that suburban people want, can use these columns to his financial advantage.

...THE LETTER ...

Mr. W. A. Hahn, Prop. Hahn's Reliable Dye House, 705 Ninth street, N. W.

Dear Sir:—We find you have been advertising in our columns constantly since July, 1890, when this paper was established.

You are the only business man who was with us then and still remains with us and since you have been advertising in our columns continuously for a period of more than ten years we naturally have a curiosity to know how well you are satisfied with the publicity we have given you.

Respectfully THE SUBURBAN CITIZEN.

THE REPLY.

Editor Suburban Citizen. Dear Sir: -- In answer to your request will say I am very well satisfied with resul's from my adv. in your paper. The fact of my adv. being in your

paper for over ten years speaks for it-Respectfully, W. A. HAHN, 705 Ninth street N. W.

corner another, with definess gained by long practice, seizes the upper part of the beak with one hand and causes the ostrich to open his mouth. Then There is no delay like there is in cases

FOR SALE.

Several tracts of land near Brightwood and Takoma, also Building Lots on Brightwood Ave., and 14th Street road. Louis P. Shoemaker, 920 F St., N. W.

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improvement. It is the only
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Columbia that maintains a
punching bureau, whose duty
it is to punch up the authorities and keep them awake to
she needs of the suburba. Ou
that account it deserves and is
receiving substantial encour

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